

Global Carbon-Carbon Composite Material Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon-Carbon Composite Material market size will reach 2,910.61 Million USD in 2025 and is projected to reach 3,375.63 Million USD by 2032, with a CAGR of 2.14% (2025-2032). Notably, the China Carbon-Carbon Composite Material market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Carbon-carbon composite material, often abbreviated as C/C composite, is a high-performance composite material made primarily from carbon fibers and a carbon matrix. It is known for its exceptional strength, low density, high-temperature resistance, and dimensional stability. The carbon fibers, which are typically woven or stacked in various orientations, provide the composite with its mechanical properties, including high tensile and compressive strength. The carbon matrix, typically derived from a carbon-rich precursor material, acts as a binder, providing stability and maintaining the integrity of the composite. Carbon-carbon composites find applications in aerospace, defense, and high-temperature industries where lightweight and heat-resistant materials are required. They are used in aircraft components, rocket nozzles, brake systems, and thermal protection systems. The unique combination of properties offered by carbon-carbon composites makes them ideal for applications where extreme conditions and superior performance are essential.

The major global manufacturers of Carbon-Carbon Composite Material include SGL Carbon, Toyo Tanso, Tokai Carbon, Hexcel, Nippon Carbon, MERSEN BENELUX, Toray, CFC Design, Carbon Composites, GrafTech, Schunk, Americarb, Graphtek, Bay Composites, Luhang Carbon, GOES, Haoshi Carbon, Jiuhua Carbon, KBC, Chemshine, Boyun, Chaoma, Baimtec, Jining Carbon, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbon-Carbon Composite Material. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbon-Carbon Composite Material market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbon-Carbon Composite Material market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbon-Carbon Composite Material industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbon-Carbon Composite Material Include:

SGL Carbon

Toyo Tanso

Tokai Carbon

Hexcel

Nippon Carbon

MERSEN BENELUX

Toray

CFC Design

Carbon Composites

GrafTech

Schunk

Americarb

Graphtek

Bay Composites

Luhang Carbon

GOES

Haoshi Carbon

Jiuhua Carbon

KBC

Chemshine

Boyun

Chaoma

Baimtec

Jining Carbon

Carbon-Carbon Composite Material Product Segment Include:

Unidirectional Structure Materials

Bi-Directional Structure Materials

Multi-Directional Structure Materials

Carbon-Carbon Composite Material Product Application Include:

CZ and DSS Furnaces

C/C Grid Shelving Systems

Glass Handling Industry

Aerospace Items

Basic C/C Plate Stock Producing

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Carbon-Carbon Composite Material Capacity and Production

Analysis

Chapter 3: Global Carbon-Carbon Composite Material Industry PESTEL Analysis

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